



Figure 1. Exterior of Sand Creek Treatment plant.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2540-0054

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME: SANDPOINT, CITY OF
 ADDRESS: 1123 Lake Street
 SANDPOINT, ID 83864
 FACILITY: SAND CREEK (WTP)
 LOCATION: 1123 LAKE STREET
 SANDPOINT, ID 83864
 ATTN: KODY VAN DYK, PUB. WORKS DIR.

ID0024350
 PERMIT NUMBER

001-A
 DISCHARGE NUMBER

DMR Mailing ZIP CODE: 83864
 MINOR (SUBR 01)
 External Outfall ☐ No Discharge ☐

MONITORING PERIOD
 FROM 06/01/2011 TO 06/30/2011

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. centigrade	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
00010 1.0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	1.2 deg C	0	WEEKLY	GRAB
Turbidity	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	2.58 NTU	0	MONTHLY	GRAB
00070 1.0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	2.58 NTU	0	MONTHLY	GRAB
pH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	6.93	0	WEEKLY	GRAB
00400 1.0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	7.4	0	WEEKLY	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	4.6	5.7	16/L	*****	*****	*****	7	0	MONTHLY	GRAB
00530 1.0 Effluent Gross	PERMIT REQUIREMENT	20 MO AVG	29 DAILY MX	16/L	*****	*****	*****	7	0	MONTHLY	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	78,000	78,000	gal/d	*****	*****	*****	*****	0	DAILY	METER
50050 1.0 Effluent Gross	PERMIT REQUIREMENT	Reg. Mon. MO AVG	Reg. Mon. DAILY MX	gal/d	*****	*****	*****	*****	0	DAILY	ESTIMA
Chlorine, total residual	SAMPLE MEASUREMENT	10.33	10.73	16/L	*****	*****	*****	0.05	0	WEEKLY	GRAB
50060 1.0 Effluent Gross	PERMIT REQUIREMENT	85 MO AVG	85 DAILY MX	16/L	*****	*****	*****	0.09	0	WEEKLY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 DAVID PATRICK
 WTR TRT SUPERVISOR
 TYPED OR PRINTED

Signature of Principal Executive Officer or Authorized Agent
 DAVID PATRICK
 208

TELEPHONE
 263-3440

DATE
 07/11/2011

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 PERMIT LIMIT FOR CHLORINE = 0.007 MO AV; 0.013 DA MX FOR LBS/DY; 0.01 MO AV; 0.02 DA MX FOR MGL.

EPA Form 3320-1 (Rev. 01/06) Previous editions may be used.

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Figure 2. June 2011 DMR.

City of Sandpoint, Sand Creek WTP
Photo Log

ID-002435-0

Inspection Date: 7/27/2011
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NPDES FIELD TEST RESULTS FORM

Sand Creek Discharge Analysis				Month	June
Weekly: 6-3-11	Results	Operator DS		Year	2011
Total chlorine residual	0.09			Week 1	
PH	7.4		Collection Time: 1015		
Temperature C deg.	90°				
Monthly:					
Total suspended solids	SENT TO LAB				
Turbidity	2.58				
Weekly: 6-6-11	Results	Operator CW		Week 2	
Total chlorine residual	0.05				
PH	6.97		Collection Time: 11:00		
Temperature C deg.	12°				
Monthly:					
Total suspended solids					
Turbidity					
Weekly: 6-24-11	Results	Operator DS		Week 3	
Total chlorine residual	0.03				
PH	7.1		Collection Time: 1008		
Temperature C deg.	12°				
Monthly:					
Total suspended solids					
Turbidity					
Weekly: 6-30-11	Results	Operator CW		Week 4	
Total chlorine residual	0.03				
PH	6.93		Collection Time: 1350		
Temperature C deg.	11°				
Monthly:					
Total suspended solids					
Turbidity					
Yearly:	Metals: antimony, arsenic, beryllium, cadmium, T. chromium, copper, lead, nickel, selenium, silver, thallium, and zinc. + TTHM.				
	Any month of the year for 2009, 2010, and 2011.				

100024350
PERMIT NUMBER
001-A
DISCHARGE NUMBER
DMR #...

Figure 3 June 2011 Operator Log sheet for Sand Creek plant.

Accurate Testing Labs, LLC
7950 Meadowlark Way
Coeur d'Alene, ID 83815
Phone (208) 762 8378 Fax (208) 762 9082

Certificate of Analysis
Order No.: **2011060118**
Page: 1 of 1

David Pafundi
Sandpoint Water Dept
1123 Lake Street City Hall
Sandpoint, ID 83864

Description: S.C. Pond
Date Received: 06/07/2011 11:00

Sample: 1
Location: 1
Sample Type: GRABS

Matrix: Drinking Water
D/T Collected: 06/03/2011 10:15
Collected by: D. Spinney

Analyte	Result	Unit	Method	PQL	Prep Date	Test Date	Analyst
Total Suspended Solids	7	mg/L	EPA 160.2	1		06/09/11	AR

Figure 4 June 2011 TSS sample data sheet.

Lab EPA ID No.: ID00912	Lab Sample#: 120767	Laboratory Name: Accurate Testing Labs, LLC 7950 Meadowlark Way Coeur d'Alene, ID 83815 Phone (208) 762 8378 Fax (208) 762 9082 Web site: www.accuratetesting.com E-mail: info@accuratetesting.com
Date Received: 06/07/2011	Date Reported by Lab: 06/21/11	
Compliance or Replacement Sample:		
Date Collected: 06/06/2011	Time Collected: 11:06	
Sample Type: Raw Water		
PWS No.: 1090121 RE	PWS Name: Sandpoint Water Dept	
Sample Location: Sand Creek Sed Pond		Lab Order No.: 2011060120
Collector: C. Wood	Phone: (208) 263-3440	

Public Drinking Water System DISINFECTION BYPRODUCT (DBP) ANALYSIS REPORT:

FRDS	Contaminant	Results mg/L	Method	MCL*	MDL*	Analysis Date	Analyst
2950	Total Trihalomethanes	0.0150	EPA 524.2	0.08	0.0005	06/09/11	ANA
2456	Total Haloacetic acids	0.0651	SM 6251B	0.060	0.001	06/15/11	ANA

ND = Not detected within sensitivity of instrument
MDL = Method detection limit
MCL - Maximum Contaminant Level

Comments:

Figure 5. Laboratory THM analysis sheet from June 2011.

Lab EPA ID No.: ID00912	Lab Sample#: 119752
Date Received: 05/03/2011	Date Reported by Lab: 06/07/11
Compliance or Replacement Sample: Compliance	
Date Collected: 05/03/2011	Time Collected: 08:05
Sample Type: Raw Water	
PWS No.: 1090121 RE	PWS Name: Sandpoint Water Dept
Sampling Location: Sand Creek Sed. Pond	Tag#
Collector: C. Wood	Phone: (208) 263-3440

Laboratory Name:
Accurate Testing Labs, LLC
 7950 Meadowlark Way
 Coeur d'Alene, ID 83815
 Phone (208) 762 8378
 Fax (208) 762 9082
 Web site: www.accuratetesting.com
 E-mail: info@accuratetesting.com

Lab Order No.: 2011050049 1

Public Drinking Water System INORGANIC CHEMICAL (IOC) ANALYSIS REPORT:

Phase II								Phase V							
FRDS	Analytes	Results	MCL*	MDL*	Method	Analysis Date	Analyst	FRDS	Analytes	Results	MCL*	MDL*	Method	Analysis Date	Analyst
1010	Barium							1036	Nickel	ND	0.10	0.02	EPA 200.7	06/07/11	WM
1015	Cadmium	ND	0.002	0.002	EPA 200.7	06/07/11	WM	1074	Antimony	ND	0.006	0.005	EPA 200.9	06/06/11	WM
1020	Chromium	ND	0.10	0.01	EPA 200.7	06/07/11	WM	1075	Beryllium	ND	0.004	0.002	EPA 200.7	06/07/11	WM
1035	Mercury					06/07/11		1085	Thallium	ND	0.002	0.001	EPA 200.9	06/07/11	WM
1038	NO2/NO3							Other IOCs							
1040	Nitrate							1005	Arsenic	ND	0.010	0.003	EPA 200.9	05/09/11	WM
1041	Nitrite							1025	Fluoride						
1045	Selenium	ND	0.050	0.005	EPA 200.9	06/07/11	WM	1052	Sodium						
1024	Cyanide														
Secondary IOCs (optional)															
1002	Aluminum							1055	Sulfate						
1003	Ammonia							1095	Zinc	ND		0.013	EPA 200.7	06/03/11	WM
1016	Calcium							1905	Color						
1017	Chloride							1915	Hardness						
1022	Copper	ND		0.01	EPA 200.7	06/06/11	WM	1920	Odor						
1027	Hyd. Sulfide							1925	pH						
1028	Iron							1926	Conductivity						
1031	Magnesium							1927	Alkalinity						
1032	Manganese							1930	Diss. Solids						
1042	Postassium							1997	Langlier Indx						
1049	Silica SiO2							2905	Surfactants						
1050	Silver	ND		0.01	EPA 200.7	06/03/11	WM	1030	Lead	ND		0.002	EPA 200.9	06/06/11	WM

*Reported in mg/L unless otherwise noted, units differ for secondary MCLs depending on contaminant
 ND = Not detected within sensitivity of instrument
 Empty = No analysis performed for this contaminant
 MDL = Method detection limit
 MCL - Maximum Contaminant Level

Comments:

FOR NPDES PERMIT
 REPORT FOR DMR 2011 DEC.

Sandpoint Water Dept
 David Pafundi
 1123 Lake Street City Hall
 Sandpoint, ID 83864

Laboratory Supervisor
 Walter Mueller

06/07/11

Figure 6. Laboratory metals analysis sheet from May 2011.



Figure 7. Onsite laboratory area in plant building.

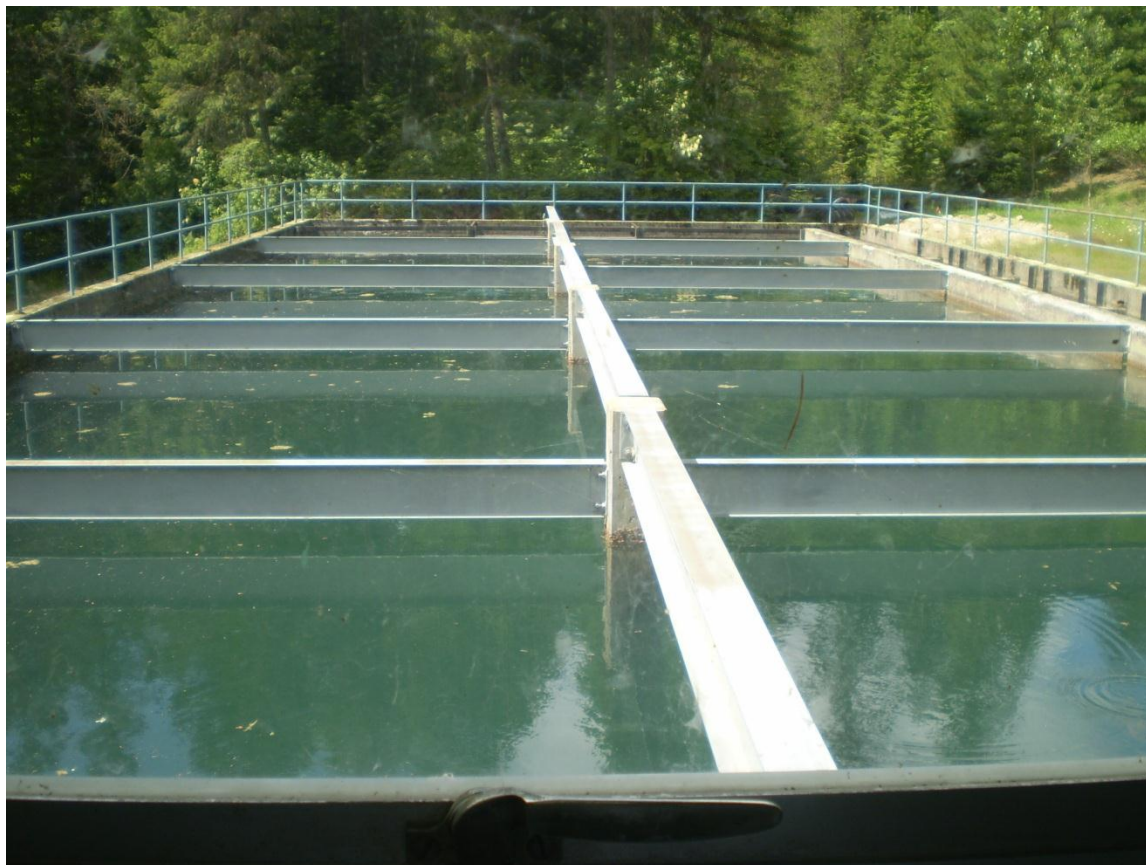


Figure 8. View of raw water settling basin at west end of plant.

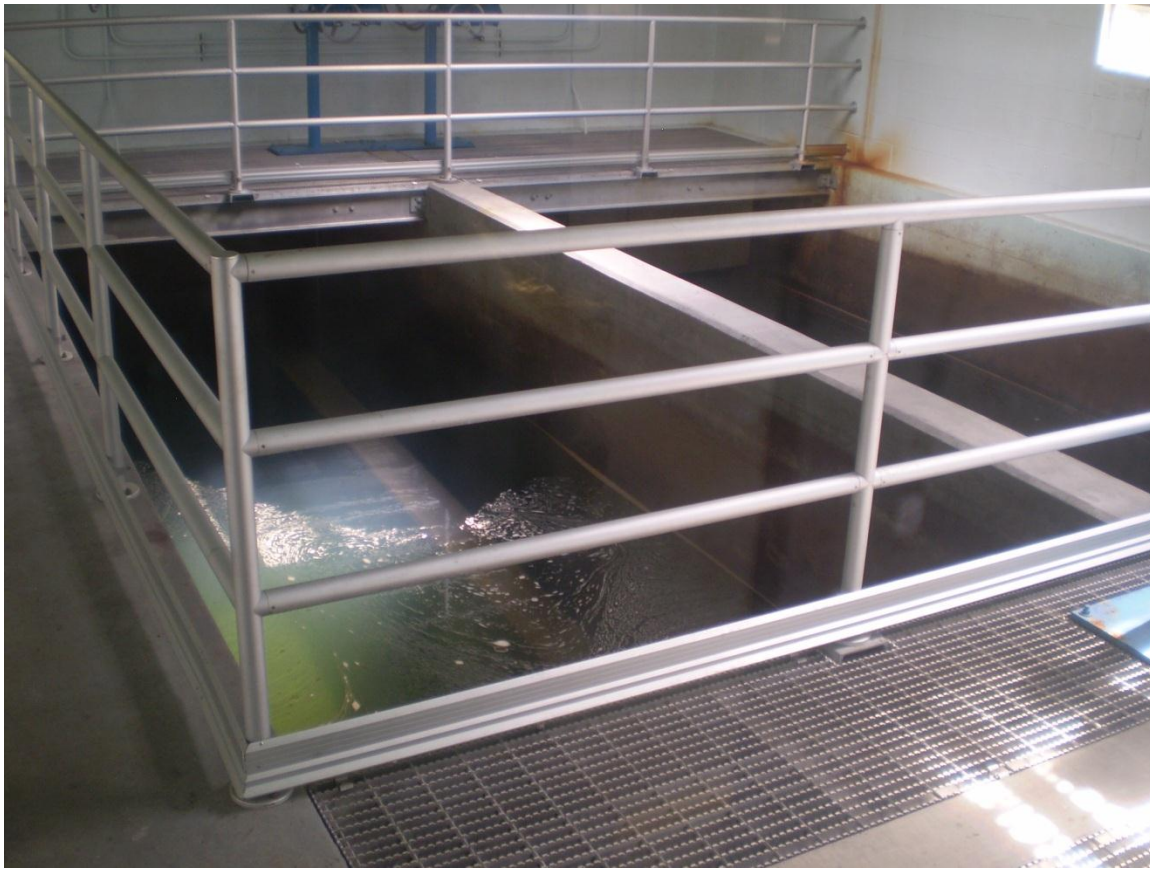


Figure 9. Two of the four filters (other two are to left of picture).

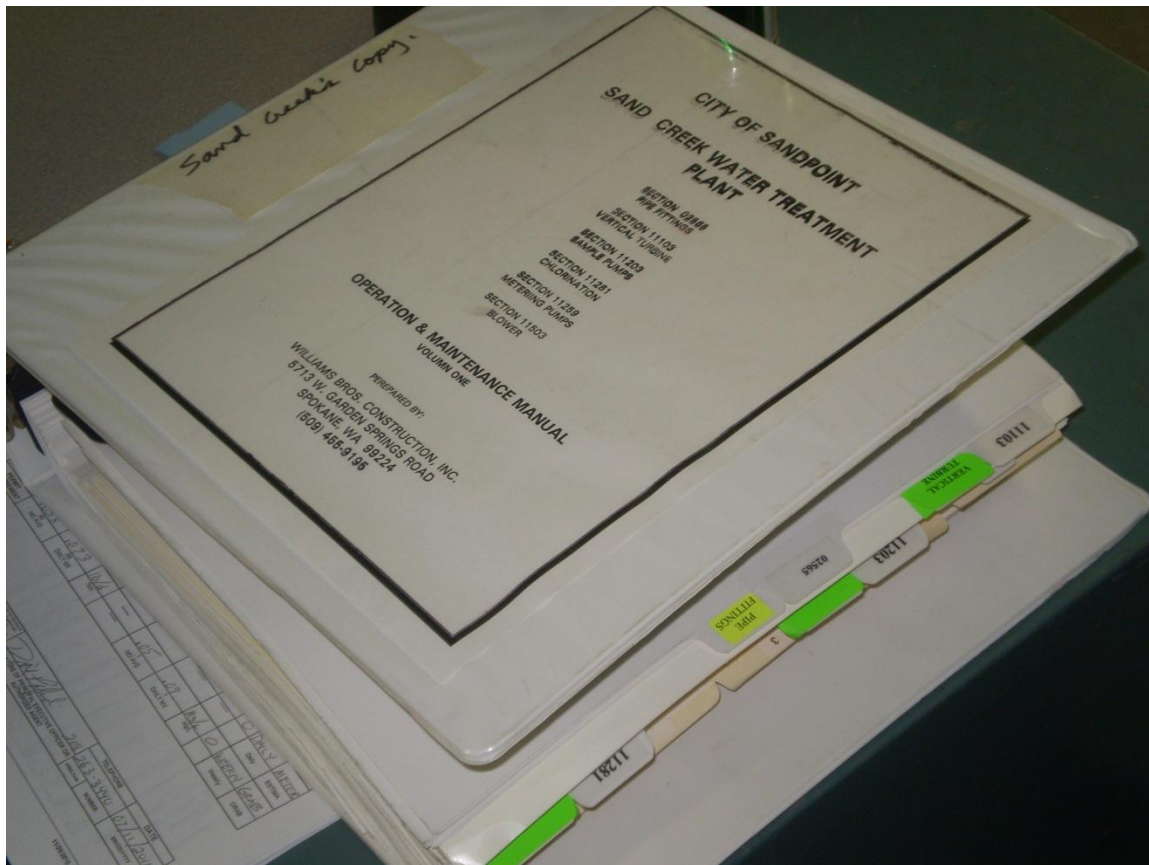


Figure 10. Plant O&M Manual.



Figure 11. Monitoring record and equipment manual storage drawer at plant.

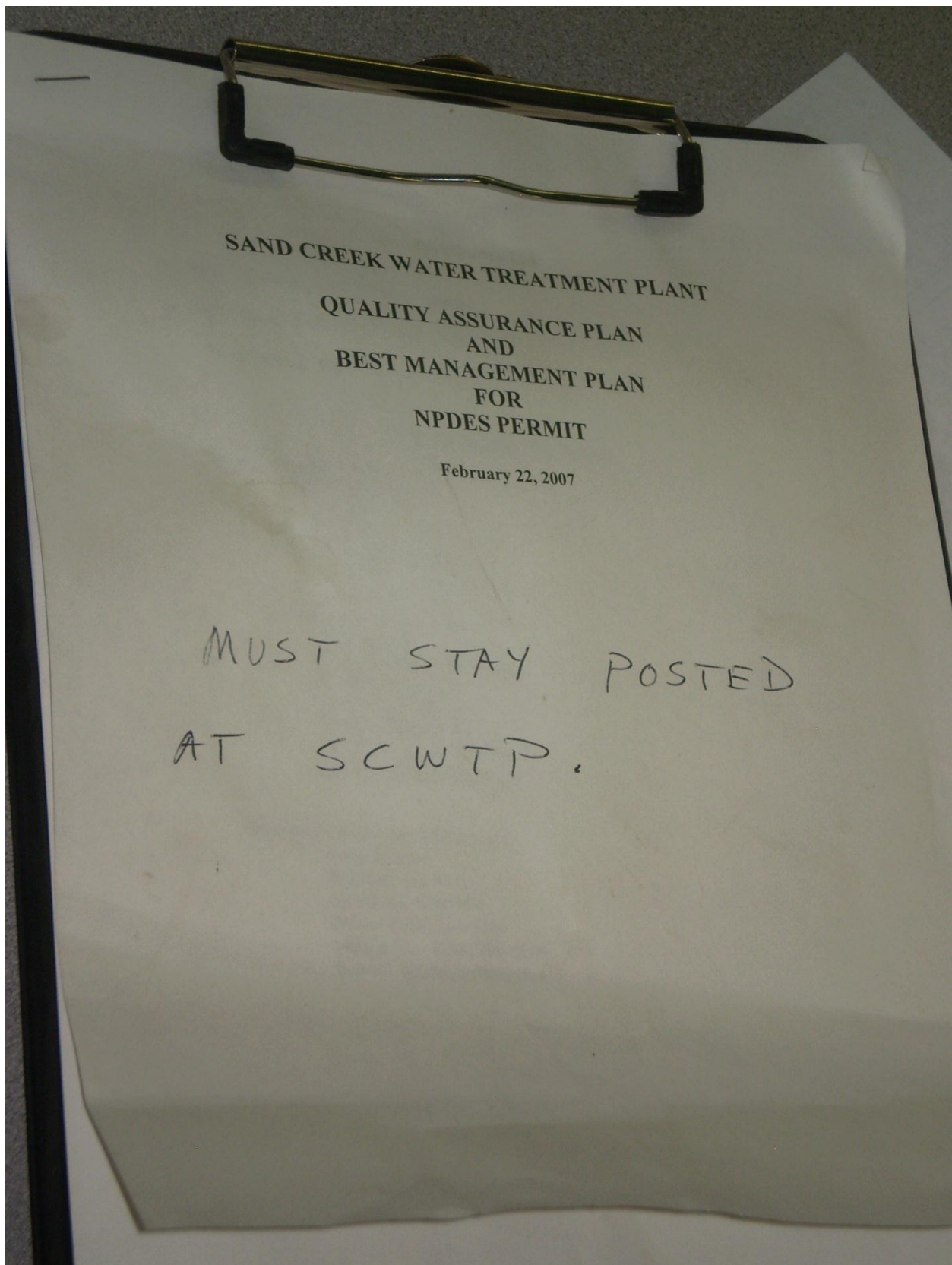


Figure 12. QA and BMP (dated 2/22/2007) plan for plant.



Figure 13. Backwash pipe with flow meter.



Figure 14. Chlorine Injection Point



Figure 15. Air Tanks for Hydropneumatic Valves



Figure 16. Plant piping, including backwash (large horizontal blue pipe).



Figure 17. Distribution Entry Point



Figure 18. pH meter, turbidimeter and chlorine analyzer in treatment building.



Figure 19. New walking bridge to access settling pond.



Figure 20. Settling basin for filter backwash.



Figure 21. Discharge sampling point from settling basin (Outfall 001).